Appendix G

Quality Level Designation

414.02
11/10/98
Rev. 02

QUALITY LEVEL DESIGNATION AND RECORD

Quality Level Evaluation Performed By: R. G. Thompson Date: 04/07/2000

Facility/Structure/System: OU 3-13 Tank Farm Interim Action Quality Level: 3

IDENTIFICATION OF ITEM	QUALITY LEVEL DESIGNATION	TECHNICAL JUSTIFICATION
All OU 3-13, Group 1 activities Those activities include upgrading existing surface and building drainages, installing new drainage ditches, and constructing new storm water collection ponds at INTEC.		The Group I activities will not intrude into the irnmeidate tank farm area and will be done in a near background radiation/contamination fields. Even though, the tank farm is a Hazard Class 2 facility this work does not fit the definitions for quality level 2, (i.e., Potential for significant on-site consequences form release of radioactive or hazardous

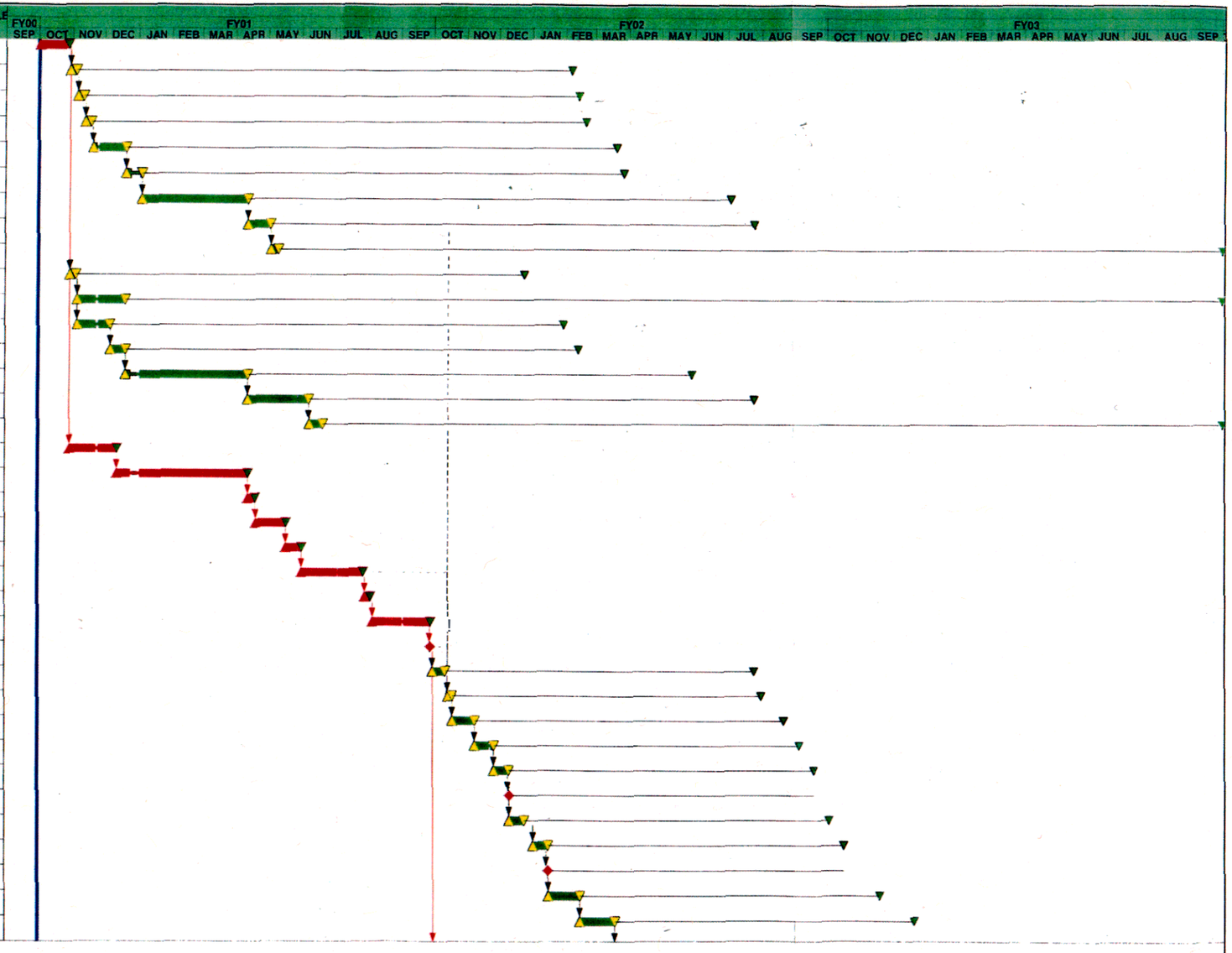
Note: Assign and record quality level in accordance with MCP-540, and obtain appropriate approvals. Completed and approved form becomes a quality assurance record. (Master Equipment List may be used as a Q-List.)

R. G. Thompson	[signature]	4/6/2000
Quality Assurance Concurrence Printed/Typed Name	Quality Assurance Concurrence Signature	Date
R. L. Davison	[signature]	4/10/2000
Facility/Program/Project Approval Printed/Typed Name	Facility/Program/Project Approval Signature	Date

Appendix H–1

Original Construction Schedule

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	MILE
C11000	Subcontractor Training and Submittals	20	02OCT00	27OCT00	
C11010	Mobolize - Evap Pond	5	30OCT00	03NOV00	
:0	Survey and Plot	5	06NOV00	10NOV00	
C11030	Clear and Grub	5	13NOV00	17NOV00	
C11040	FY-01 Excavate and Haul Soil from Evap Pond Site	20	20NOV00	19DEC00	
C11050	Final Grade and Prep	5	20DEC00	03JAN01	
C11060	Break for Winter	70	04JAN01	11APR01	
C11070	Liner, Equip. and Instrumentation Installation	15	12APR01	02MAY01	
C11080	Demob - Evap Pond	5	03MAY01	09MAY01	
C11090	Moblize - Tank Farm Perimeter	5	30OCT00	03NOV00	
C11100	Lift Station Installation	30	06NOV00	19DEC00	
C11110	Storm Drain Upgrades	20	06NOV00	05DEC00	
C11120	Grading of TF Perimeter	10	06DEC00	19DEC00	
C11130	Break for Winter	75	20DEC00	11APR01	
C11140	Surface Seal of TF Perimeter	40	12APR01	07JUN01	
C11150	Demob - TF Perimeter	8	08JUN01	19JUN01	
C11160	Delay due to Interference (C-40)	29	30OCT00	11DEC00	
C11170	Break for Winter	81	12DEC00	11APR01	
C11180	Moblize Tank Farm	5	12APR01	18APR01	
:0	Tank Farm Ditch Construction	20	19APR01	16MAY01	
:0	Tank Farm Grading	10	17MAY01	31MAY01	
C11210	Tank Farm Spray Coating	40	01JUN01	27JUL01	
C11220	Demob Tank Farm	5	30JUL01	03AUG01	
C11230	SO Testing and Turnover	39	06AUG01	28SEP01	
C11240	Construction Complete	0		28SEP01	I3
C11243	As Build - FY01	10	01OCT01	12OCT01	
C11250	Develop Prefinal Inspection Report - FY01	4	15OCT01	18OCT01	
C11260	Develop Prefinal Inspection Report - FY02	15	19OCT01	08NOV01	
C11270	IRC Review - Prefinal Inspection Report	10	09NOV01	26NOV01	
C11280	IRC Comment Incorp - Prefinal Inspection Rpt	10	27NOV01	10DEC01	
C11290	OU 3-13 Gp 1 Dft Pre-Final Insp Rpt Sent to DOE-	0		10DEC01	E4
C11300	DOE Review - Prefinal Inspection Report	10	11DEC01	24DEC01	
C11310	DOE Comment Incorp - Prefinal Inspection Rpt	10	02JAN02	15JAN02	
C11320	OU 3-13 Gp 1 Dft Pre-Final Insp Rpt Sent by DOE-	0		15JAN02	E4
C11330	EPA/IDHW Review - Prefinal Inspection Rpt	22	16JAN02	14FEB02	
C11340	EPA/IDHW Comment Incorp - Prefinal Inspect Rp	22	15FEB02	18MAR02	



Finish Date 01OCT00
Data Date 30SEP03
Run Date 01OCT00
03AUG00 15:13

Early Bar
Float Bar
Progress Bar
Critical Activity

WAG3 - 0601
LT-A0 (All)

Bechtel BWXT Idaho, LLC

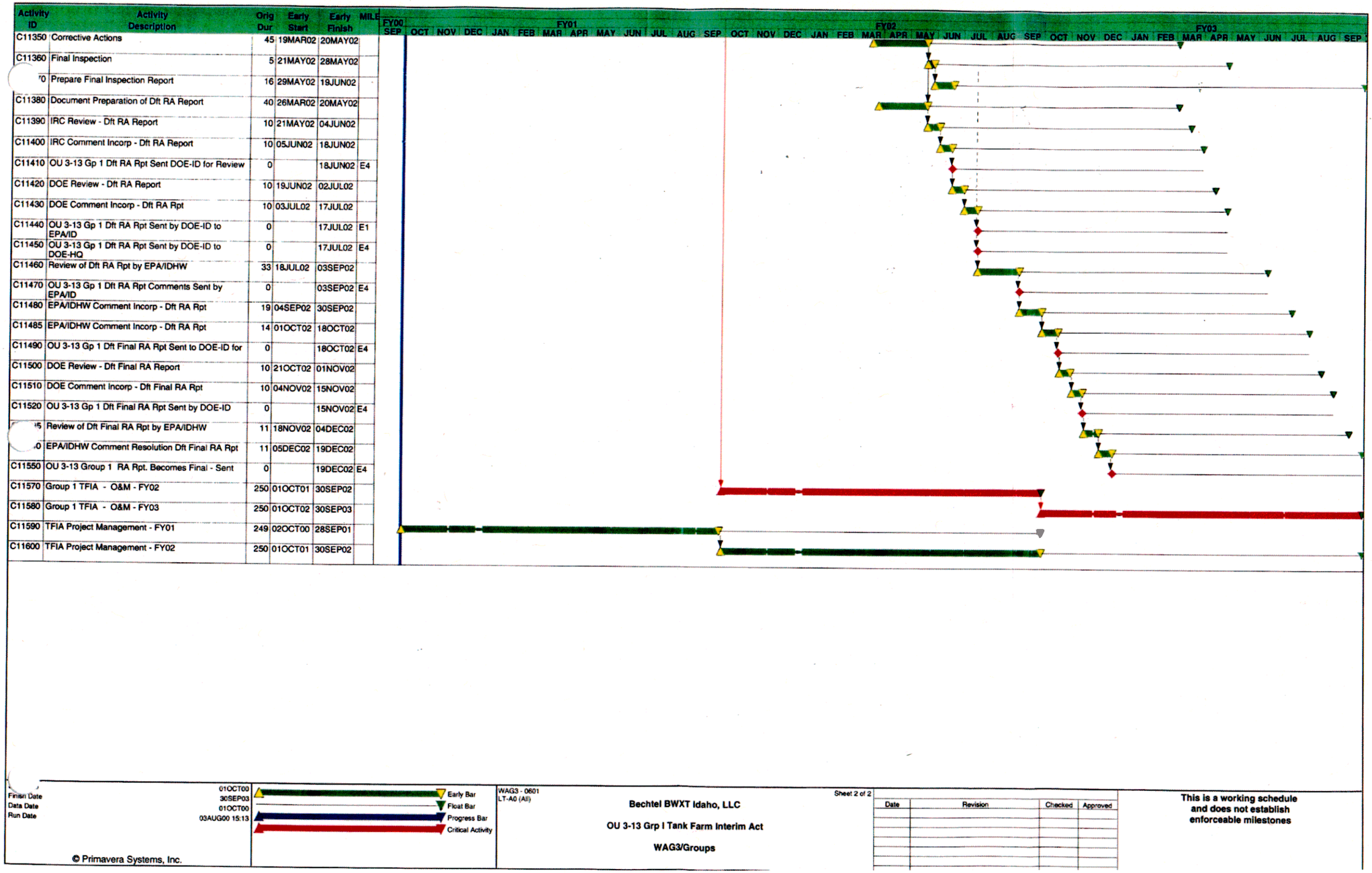
OU 3-13 Grp I Tank Farm Interim Act

WAG3/Groups

Sheet 1 of 2

Date	Revision	Checked	Approved

This is a working schedule and does not establish enforceable milestones



Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	MILE
C11350	Corrective Actions	45	19MAR02	20MAY02	
C11360	Final Inspection	5	21MAY02	28MAY02	
'0	Prepare Final Inspection Report	16	29MAY02	19JUN02	
C11380	Document Preparation of Dft RA Report	40	26MAR02	20MAY02	
C11390	IRC Review - Dft RA Report	10	21MAY02	04JUN02	
C11400	IRC Comment Incorp - Dft RA Report	10	05JUN02	18JUN02	
C11410	OU 3-13 Gp 1 Dft RA Rpt Sent DOE-ID for Review	0		18JUN02	E4
C11420	DOE Review - Dft RA Report	10	19JUN02	02JUL02	
C11430	DOE Comment Incorp - Dft RA Rpt	10	03JUL02	17JUL02	
C11440	OU 3-13 Gp 1 Dft RA Rpt Sent by DOE-ID to EPA/ID	0		17JUL02	E1
C11450	OU 3-13 Gp 1 Dft RA Rpt Sent by DOE-ID to DOE-HQ	0		17JUL02	E4
C11460	Review of Dft RA Rpt by EPA/IDHW	33	18JUL02	03SEP02	
C11470	OU 3-13 Gp 1 Dft RA Rpt Comments Sent by EPA/ID	0		03SEP02	E4
C11480	EPA/IDHW Comment Incorp - Dft RA Rpt	19	04SEP02	30SEP02	
C11485	EPA/IDHW Comment Incorp - Dft RA Rpt	14	01OCT02	18OCT02	
C11490	OU 3-13 Gp 1 Dft Final RA Rpt Sent to DOE-ID for	0		18OCT02	E4
C11500	DOE Review - Dft Final RA Report	10	21OCT02	01NOV02	
C11510	DOE Comment Incorp - Dft Final RA Rpt	10	04NOV02	15NOV02	
C11520	OU 3-13 Gp 1 Dft Final RA Rpt Sent by DOE-ID	0		15NOV02	E4
'5	Review of Dft Final RA Rpt by EPA/IDHW	11	18NOV02	04DEC02	
.0	EPA/IDHW Comment Resolution Dft Final RA Rpt	11	05DEC02	19DEC02	
C11550	OU 3-13 Group 1 RA Rpt. Becomes Final - Sent	0		19DEC02	E4
C11570	Group 1 TFIA - O&M - FY02	250	01OCT01	30SEP02	
C11580	Group 1 TFIA - O&M - FY03	250	01OCT02	30SEP03	
C11590	TFIA Project Management - FY01	249	02OCT00	28SEP01	
C11600	TFIA Project Management - FY02	250	01OCT01	30SEP02	

Finish Date 01OCT00
Data Date 30SEP03
Run Date 01OCT00
03AUG00 15:13

© Primavera Systems, Inc.

Early Bar
Float Bar
Progress Bar
Critical Activity

WAG3 - 0601
LT-A0 (All)

Bechtel BWXT Idaho, LLC

OU 3-13 Grp I Tank Farm Interim Act

WAG3/Groups

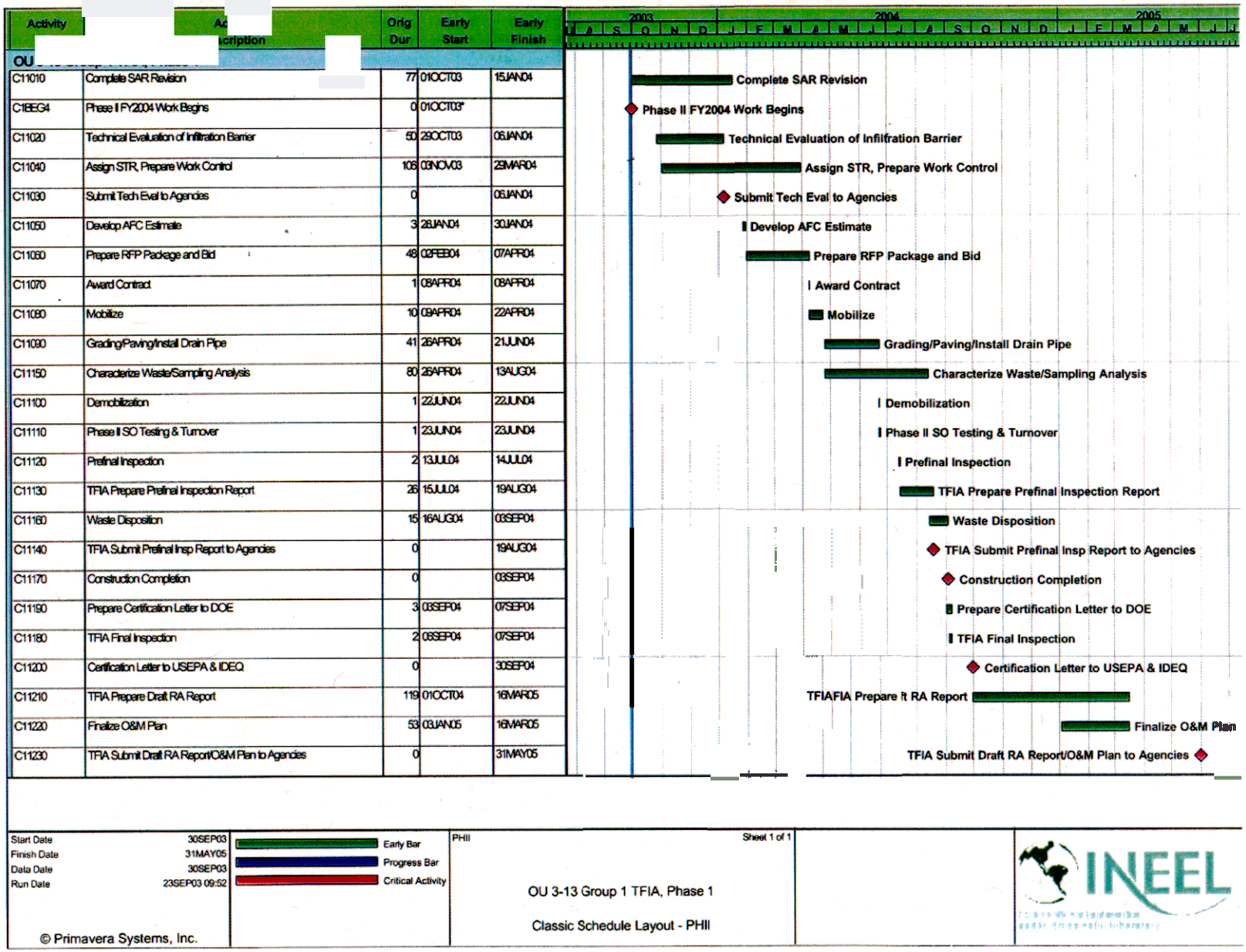
Sheet 2 of 2

Date	Revision	Checked	Approved

This is a working schedule and does not establish enforceable milestones

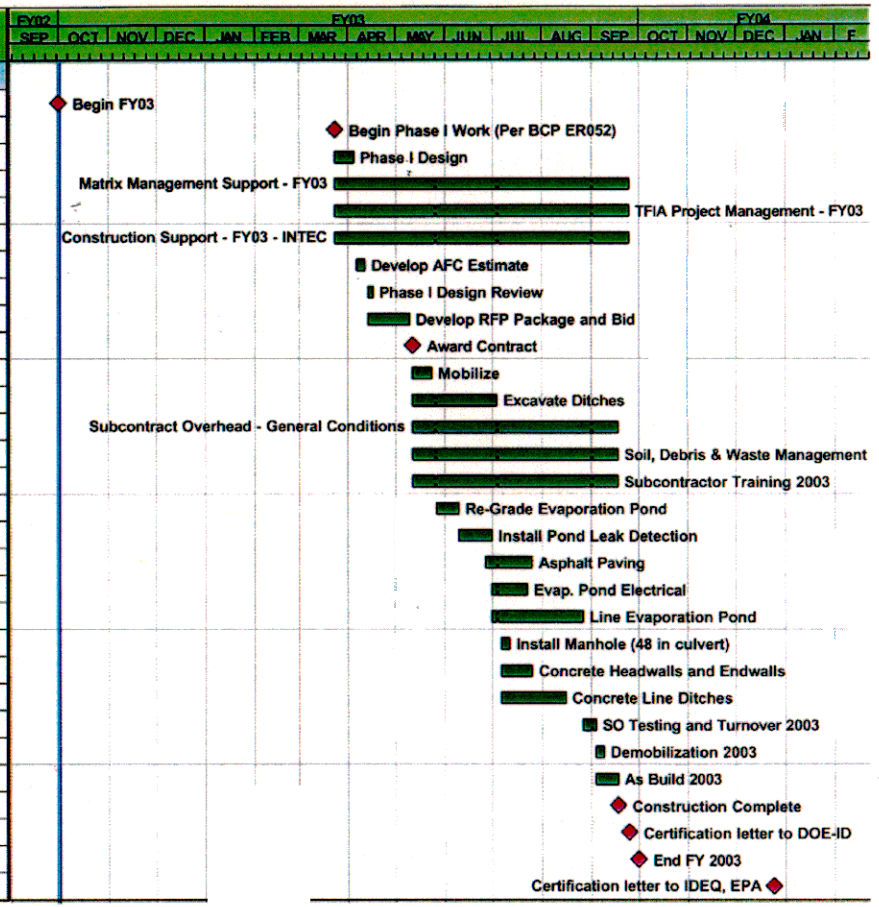
Appendix H–2

Revised Construction Schedule for Phases I and II



Activity	Activity Description	Orig Dur	Early Start	Early Finish
OU [redacted]				
C11010	Complete SAR Revision	77	01OCT03	15JAN04
C1BEG4	Phase II FY2004 Work Begins	0	01OCT03*	
C11020	Technical Evaluation of Infiltration Barrier	50	29OCT03	06JAN04
C11040	Assign STR, Prepare Work Control	106	03NOV03	29MAR04
C11030	Submit Tech Eval to Agencies	0		06JAN04
C11050	Develop AFC Estimate	3	28JAN04	30JAN04
C11060	Prepare RFP Package and Bid	48	02FEB04	07APR04
C11070	Award Contract	1	08APR04	08APR04
C11080	Mobilize	10	09APR04	22APR04
C11090	Grading/Paving/Install Drain Pipe	41	26APR04	21JUN04
C11150	Characterize Waste/Sampling Analysis	80	26APR04	13AUG04
C11100	Demobilization	1	22JUN04	22JUN04
C11110	Phase II SO Testing & Turnover	1	23JUN04	23JUN04
C11120	Prefinal Inspection	2	13JUL04	14JUL04
C11130	TFIA Prepare Prefinal Inspection Report	26	15JUL04	19AUG04
C11160	Waste Disposition	15	16AUG04	03SEP04
C11140	TFIA Submit Prefinal Insp Report to Agencies	0		19AUG04
C11170	Construction Completion	0		03SEP04
C11190	Prepare Certification Letter to DOE	3	03SEP04	07SEP04
C11180	TFIA Final Inspection	2	03SEP04	07SEP04
C11200	Certification Letter to USEPA & IDEQ	0		30SEP04
C11210	TFIA Prepare Draft RA Report	119	01OCT04	16MAR05
C11220	Finalize O&M Plan	53	03JAN05	16MAR05
C11230	TFIA Submit Draft RA Report/O&M Plan to Agencies	0		31MAY05

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
OU 3-13 Group 1 TFIA FY 03-04				
C1BEG3	Begin FY03	0	01OCT02	
C11224	Begin Phase I Work (Per BCP ER052)	0	24MAR03*	
C11335	Phase I Design	10	24MAR03*	04APR03
C11550	Matrix Management Support - FY03	130	24MAR03	24SEP03
C11600	TFIA Project Management - FY03	130	24MAR03	24SEP03
C11607	Construction Support - FY03 - INTEC	130	24MAR03	24SEP03
C11231	Develop AFC Estimate	5	07APR03	11APR03
C11340	Phase I Design Review	3	14APR03	16APR03
C11235	Develop RFP Package and Bid	20	14APR03	09MAY03
C11237	Award Contract	0	12MAY03	
C12030	Mobilize	10	12MAY03	23MAY03
C12120	Excavate Ditches	39	12MAY03	03JUL03
C11239	Subcontract Overhead - General Conditions	90	12MAY03	17SEP03
C11241	Soil, Debris & Waste Management	90	12MAY03	17SEP03
C12020	Subcontractor Training 2003	90	12MAY03	17SEP03
C12050	Re-Grade Evaporation Pond	10	27MAY03	09JUN03
C12070	Install Pond Leak Detection	15	10JUN03	30JUN03
C12110	Asphalt Paving	20	27JUN03	25JUL03
C12090	Evap. Pond Electrical	15	01JUL03	22JUL03
C12060	Line Evaporation Pond	40	01JUL03	26AUG03
C11910	Install Manhole (48 in culvert)	5	07JUL03	11JUL03
C12140	Concrete Headwalls and Endwalls	15	07JUL03	25JUL03
C12130	Concrete Line Ditches	30	07JUL03	15AUG03
C12230	SO Testing and Turnover 2003	5	27AUG03	03SEP03
C12240	Demobilization 2003	3	04SEP03	08SEP03
C12250	As Build 2003	10	04SEP03	17SEP03
C12210	Construction Complete	0		17SEP03
C11355	Certification letter to DOE-ID	0		24SEP03
C1END3	End FY 2003	0		30SEP03*
C11356	Certification letter to IDEQ, EPA	0		24DEC03



Start Date	01OCT02
Finish Date	30SEP03
Data Date	01OCT02
Run Date	23SEP03 10:04

Early Bar
Progress Bar
Critical Activity

3T07 - 0601 Sheet 1 of 1

OU 3-13 Group 1 Tank Farm I/A

FY03 BASELINE

INEEL

Appendix I

Storm Water Pollution Prevention Plan

450.16
03/15/2000
Rev. *02*

STORM WATER POLLUTION PREVENTION PLAN FOR CONSTRUCTION ACTIVITIES (SWPPP-CA) LONG-FORM PROJECT

PROJECT TITLE: OU3-13 Group 1 Tank Farm Interim Action Phase 1 and 2

Facility or Location: INTEC Environmental Checklist No.: INTEC-99-028

Project Description:

The Waste Area Group 3, Operable Unit 3-13 Record of Decision (ROD) for the Group 1 - Tank Farm Interim Action requires installation of engineering controls to reduce water infiltrating into the contaminated tank farm soils. This Interim Action includes upgrading the existing storm water runoff collection system in the tank farm including a 150-ft drainage control zone around the tank farm and constructing a lined evaporation pond where storm water runoff from the INTEC facility will be collected. The ROD requires the storm water collection system to accommodate a 25-year, 24-hour storm event. Also included in this action is the construction of concrete lined drainage ditches, installing culverts, a lift station and associated piping, drop inlets, manholes, regrading for drainage, installing a polyurea coating in the tank farm area and 150-ft buffer zone surrounding it. See attached 3 drawings for layout and reference.

Project Construction Date/Duration: 10/9/00, Approximately 1 year duration

Area of Site to be disturbed: Approximately 20 acres

Standard requirements:

- ☒ Post SWPPP-CA notice near main entrance of construction site.
- ☒ Spill prevention measures and prompt cleanup of any liquid or dry material spills.
- ☒ Minimize offsite tracking of sediments from vehicles.
- ☒ Minimize area of disturbance and preserve vegetation.
- ☒ Good Housekeeping procedures:
  - ☒ Proper and orderly storage of chemicals, pesticides, fertilizers, fuel, and other hazardous materials.
  - ☒ Proper and regular disposal of sanitary, construction, and hazardous wastes.
- ☒ Fugitive dust control measures.
- ☒ Perform inspections monthly, after storms, and prior to project close-out.
- ☒ Attach a site map which indicates drainage patterns, discharge locations, potential pollution sources (equipment and material storage areas including soil piles), areas of soil disturbance, erosion and sediment controls, storm water control measures, and stabilization practices.

Erosion and Sediment Controls: (Describe controls to divert storm water from exposed soil and retain sediments on site, such as diversion structures, silt fences, and sediment basins. Identify the entities responsible for implementation and maintenance.)

The construction site has a relatively flat terrain and excavated material is expected to be gravelly. The areas of disturbance gradually drain into existing ditches (inside INTEC). Existing sediment controls are adequate for storm water that flows inside INTEC. Each of the ditches identified on the attached map will be lined with concrete. The area where the evaporation pond will be constructed is relatively flat and contains gravelly soils. The buffer zone of native vegetation will be maintained. Therefore, no sediment controls will be required for the evaporation pond construction.

STORM WATER POLLUTION PREVENTION PLAN FOR CONSTRUCTION ACTIVITIES [SWPPP-CA) LONG-FORM PROJECT

Sequence: (Describe the sequence of major activities, control measure implementation, and control measure removal.)

Sequence may consist of: construction of the lined ditches and installing new culverts, regrading areas, constructing evaporation pond, and coating areas with polyurea. No clearing is required for the construction of the lined ditches and areas to be regraded because these areas are covered with gravel. Topsoil cleared for the construction of the evaporation pond will be stockpiled on-site for use in outer berm construction to promote re-vegetation. Topsoil stockpiles will be covered to prevent erosion. Clean excavated material will be used inside INTEC as needed. Excess excavated material will be removed from the construction site for other use. Final stabilization will be achieved.

Runoff Coefficient and Storm Water Management: (Calculate runoff coefficients and explain the technical basis for permanent storm water management measures if the coefficient after construction is greater than before.)

The runoff coefficient will increase due to the installation of impervious materials. The new concrete lined ditches and lift station were designed to adequately carry the added volume. The ditches were sized to carry peak flow from a 25-year storm event and the evaporation pond was sized to accommodate the runoff from a 25-year, 24-hour storm event (see EDF-1387, "Drainage Ditch Capacity Verification at INTEC" and EDF-1385, "Evaporation Pond Sizing Design" for reference).

Final Stabilization: (Identify soil stabilization measures and describe scheduling. Identify the entities responsible for implementation and maintenance.)

Final stabilization includes compacted, regraded soils covered with an impermeable polyurea coating, concrete lined ditches, asphalt pavement, gravel covered trenches and a lined evaporation pond with re-vegetated cover.

Industrial Activities: (Identify industrial sources of pollutants such as asphalt and concrete plants and describe pollution prevention measures.)

None.

Allowable Non-Storm Water Discharge: (Identify type of discharge and describe pollution prevention measures.)

None.

Material Inventory: (Identify construction materials and wastes.)

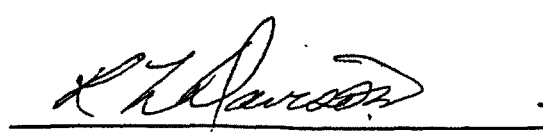
Construction materials: Materials such as concrete, plant mix pavement, geomembrane lining, polyurea coating, and gravels may be used on this project.

Construction waste: Wastes such as removal of asphalt, concrete, soil and other general construction debris may be generated. All wastes will be managed under the Waste Management plan in the project Remedial Design/Remedial Action (RD/RA) Work Plan.

Endangered Species: (Identify listed species or critical habitat in proximity to the construction activity. Describe any adverse impact and mitigative measures.)

No impact to endangered species identified in the completed project Ecological Assessment.

I have evaluated and identified controls adequate to meet the requirements of the INEEL Storm Water Pollution Prevention Plan for Construction Activities.

Project Manager  3/23/00

STORM WATER POLLUTION PREVENTION PLAN FOR CONSTRUCTION ACTIVITIES (SWPPP-CA) LONG-FORM PROJECT

Signature: K. L. DAVISON Date: 3/23/00

Name (Please Print) Phone Number

I am in agreement with the provisions set forth in this plan.

INEEL SWPPP Coordinator: M Braun Date: 3.27.00

CERTIFICATION:

I certify under penalty of law that this document *and* all attachments were prepared under my direction or supervision in accordance *with* a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based upon my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, *the* information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

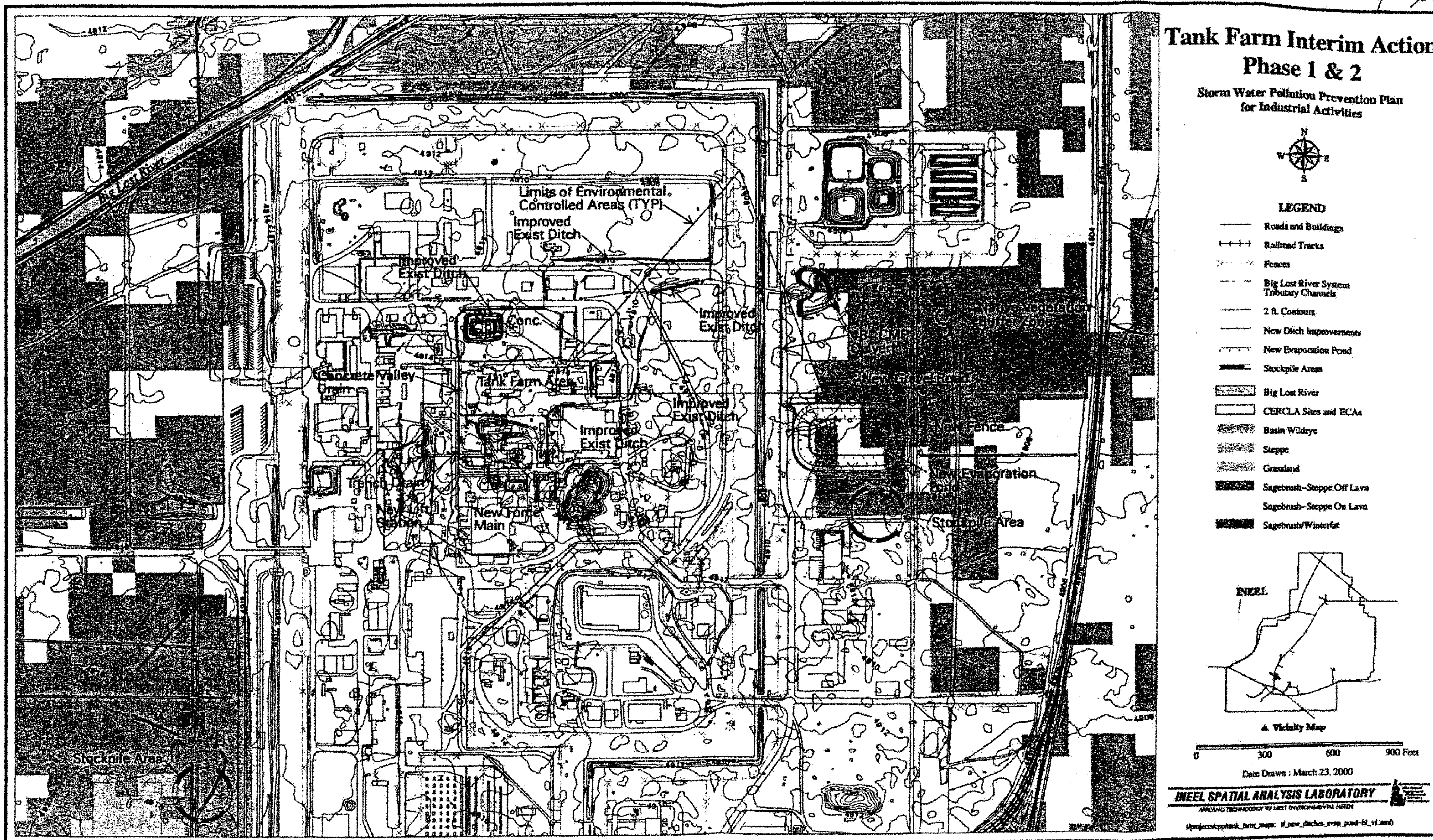
signature: Richard L Workman Date: 4/11/00

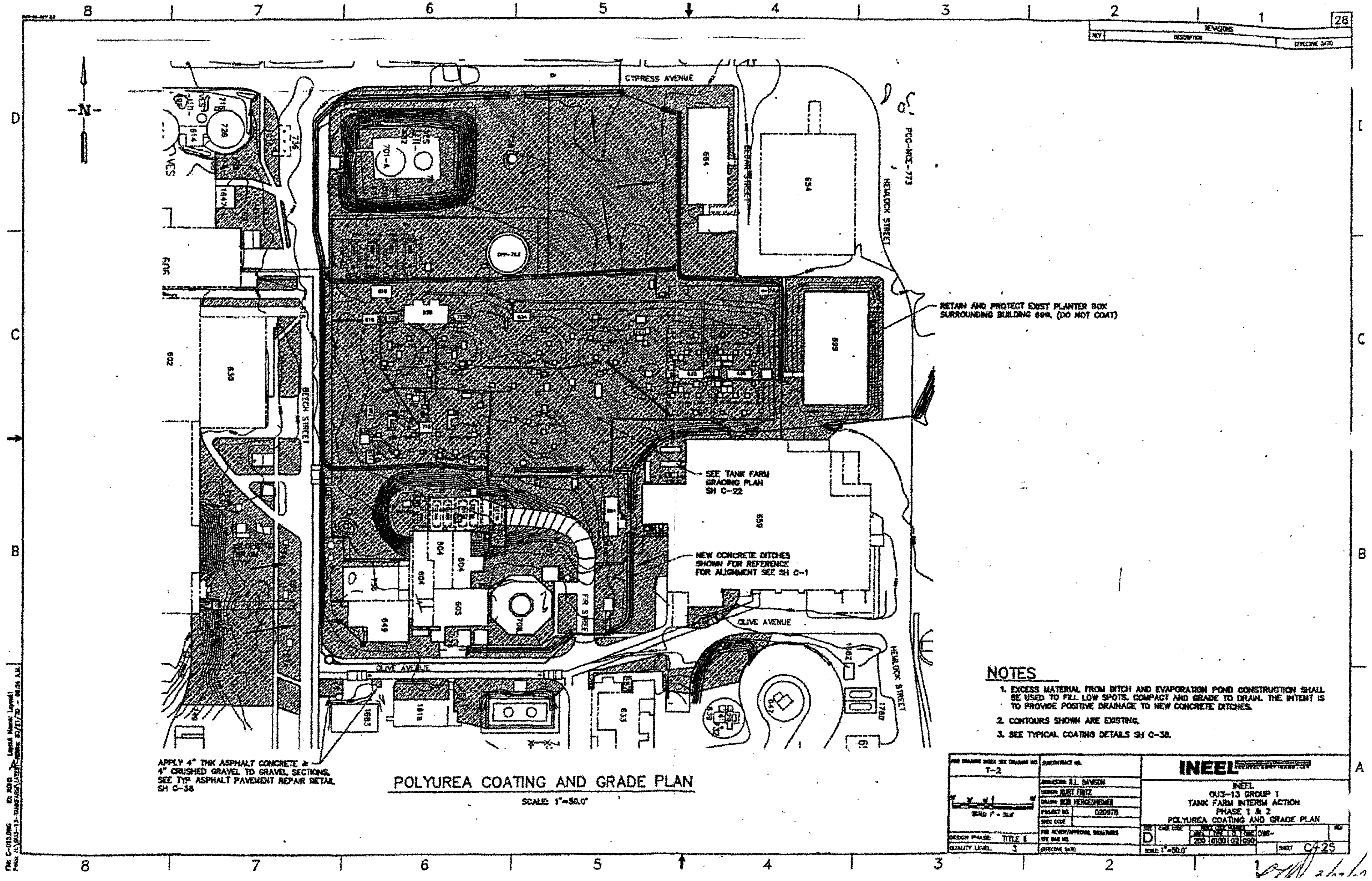
Title: ESH&QA General Manager
For: Idaho National Engineering and Environmental Laboratory
Reference: Transfer Signature Authority Letter – PHD-34-00

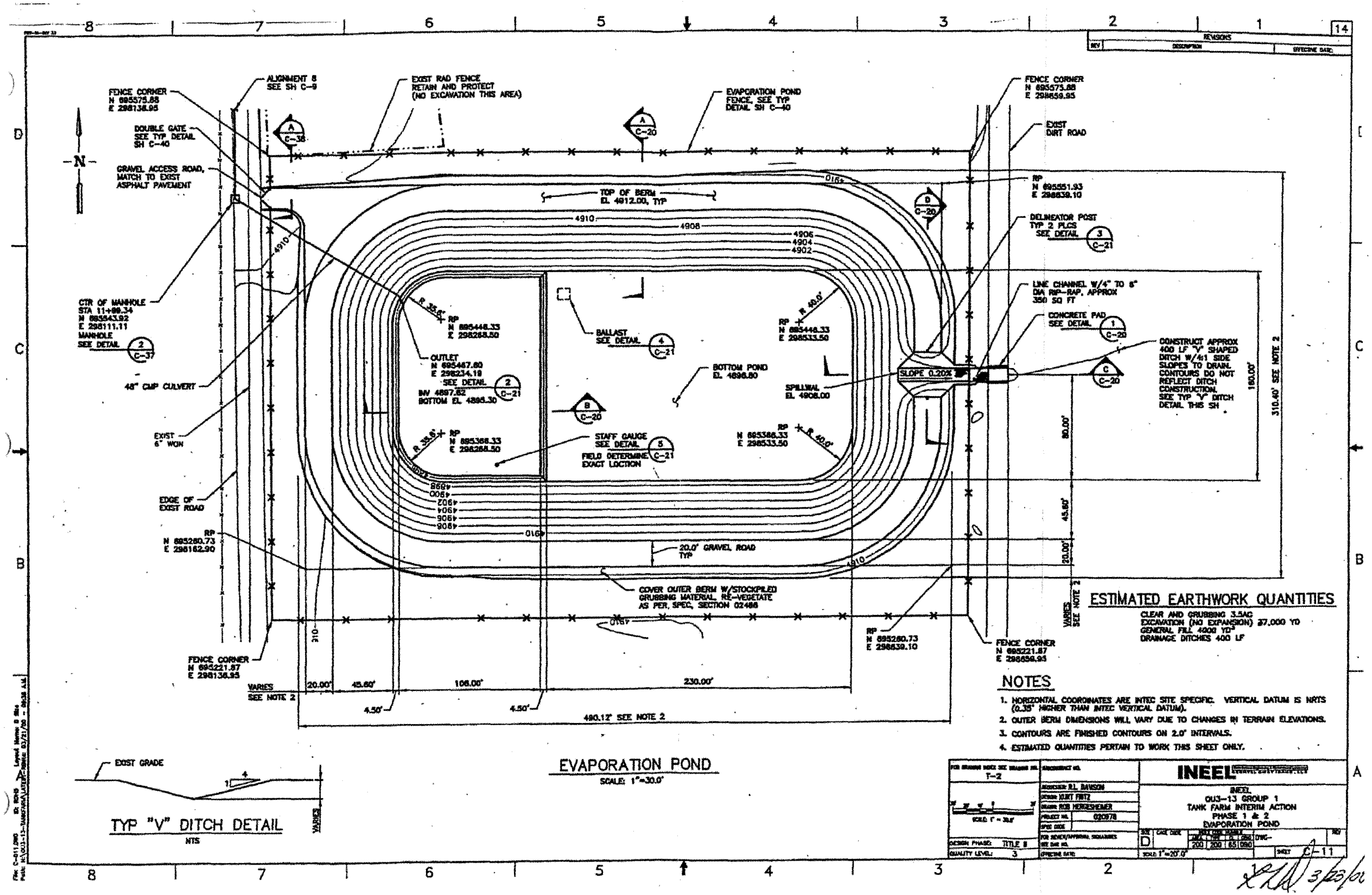
Signature: Susan Parkinson Date: 6/8, 2000

Title: Environmental Programs and Settlement Agreement Manager
For. DOE-Idaho Operations *Office*
Reference: Transfer Signature Authority Letter – OPE-EP&SA-98-091

Worksheet must be appended to the Generic Plan or Facility SWPPP-CA.


Tank Farm Interim Action
Phase 1 & 2
Storm Water Pollution Prevention Plan
for Industrial Activities
N
W
E
S
LEGEND
Roads and Buildings
Railroad Tracks
Fences
Big Lost River System Tributary Channels
2 ft. Contours
New Ditch Improvements
New Evaporation Pond
Stockpile Areas
Big Lost River
CERCLA Sites and ECAs
Basin Wildrye
Steppe
Grassland
Sagebrush–Steppe Off Lava
Sagebrush–Steppe On Lava
Sagebrush/Winterfat
INEEL
▲ Vicinity Map
0
300
600
900 Feet
Date Drawn : March 23, 2000
INEEL SPATIAL ANALYSIS LABORATORY
Limits of Environmental Controlled Areas (TYP)
Improved Exist Ditch
Improved Exist Ditch
Improved Exist Ditch
Improved Exist Ditch
Improved Exist Ditch
Conc.
Concrete Valley Drain
Tank Farm Area
Trench Drain
New Lift Station
New Force Main
Native Vegetation Buffer Zone
New Gravel Road
New Fence
New Evaporation Pond
Stockpile Area
Stockpile Area
Big Lost River
4912
4914
4910
4908
4906
4904


POLYUREA COATING AND GRADE PLAN
SCALE: 1"=50.0'
NOTES
1. EXCESS MATERIAL FROM DITCH AND EVAPORATION POND CONSTRUCTION SHALL BE USED TO FILL LOW SPOTS, COMPACT AND GRADE TO DRAIN. THE INTENT IS TO PROVIDE POSITIVE DRAINAGE TO NEW CONCRETE DITCHES.
2. CONTOURS SHOWN ARE EXISTING.
3. SEE TYPICAL COATING DETAILS SH C-38.
RETAIN AND PROTECT EXIST PLANTER BOX SURROUNDING BUILDING 699, (DO NOT COAT)
SEE TANK FARM GRADING PLAN SH C-22
NEW CONCRETE DITCHES SHOWN FOR REFERENCE FOR ALIGNMENT SEE SH C-1
APPLY 4" THK ASPHALT CONCRETE & 4" CRUSHED GRAVEL TO GRAVEL SECTIONS. SEE TYP ASPHALT PAVEMENT REPAIR DETAIL SH C-38
CYPRESS AVENUE
HEMLOCK STREET
BEECH STREET
OLIVE AVENUE
FIR STREET
PCC-NCE-773
INEEL
OU3-13 GROUP 1
TANK FARM INTERIM ACTION
PHASE 1 & 2
POLYUREA COATING AND GRADE PLAN
T-2
R.L. DAVISON
KURT FRITZ
BOB HERGESHEIMER
020978
DESIGN PHASE: TITLE II
QUALITY LEVEL: 3
D
200 0100 02 090
SCALE: 1"=50.0'
C-25
REVISIONS
28



ESTIMATED EARTHWORK QUANTITIES

CLEAR AND GRUBBING 3.5AC
EXCAVATION (NO EXPANSION) 37,000 YD
GENERAL FILL 4000 YD³
DRAINAGE DITCHES 400 LF

NOTES

1. HORIZONTAL COORDINATES ARE INTEC SITE SPECIFIC. VERTICAL DATUM IS NRTS (0.35' HIGHER THAN INTEC VERTICAL DATUM).
2. OUTER BERM DIMENSIONS WILL VARY DUE TO CHANGES IN TERRAIN ELEVATIONS.
3. CONTOURS ARE FINISHED CONTOURS ON 2.0' INTERVALS.
4. ESTIMATED QUANTITIES PERTAIN TO WORK THIS SHEET ONLY.

EXIST GRADE

TYP "V" DITCH DETAIL
NTS

EVAPORATION POND
SCALE: 1"=30.0'

INEEL
OU3-13 GROUP 1
TANK FARM INTERIM ACTION
PHASE 1 & 2
EVAPORATION POND
SCALE 1"=20.0'
SHEET C-11